

From wang!elf.wang.com!ucsd.edu!info-hams-relay Tue Apr 23 03:46:10 1991 remote
from tosspot
Received: by tosspot (1.64/waf)
via UUCP; Tue, 23 Apr 91 22:02:48 EST
for lee
Received: from somewhere by elf.wang.com id aa20718; Tue, 23 Apr 91 3:46:09 GMT
Received: from ucsd.edu by relay1.UU.NET with SMTP
(5.61/UUNET-shadow-mx) id AA18119; Mon, 22 Apr 91 22:56:03 -0400
Received: by ucsd.edu; id AA28529
sendmail 5.64/UCSD-2.1-sun
Mon, 22 Apr 91 16:13:33 -0700 for nixbur!schroeder.pad
Received: by ucsd.edu; id AA28476
sendmail 5.64/UCSD-2.1-sun
Mon, 22 Apr 91 16:13:10 -0700 for /usr/lib/sendmail -oc -odb -oQ/var/spool/
lqueue -oi -finfo-hams-relay info-hams-list
Message-Id: <9104222313.AA28476@ucsd.edu>
Date: Mon, 22 Apr 91 16:13:05 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams-relay@ucsd.edu>
Reply-To: Info-Hams@ucsd.edu
Subject: Info-Hams Digest V91 #312
To: Info-Hams@ucsd.edu

Info-Hams Digest Mon, 22 Apr 91 Volume 91 : Issue 312

Today's Topics:

 Address for JerryCo?
 AMSAT NEWS SERVICE BULLETIN 110.01
 AMSAT ORBITAL ELEMENTS
 Deerfield hamfest dates?
 How to make electronic antenna switches at 70cm?
 Repeater Distance

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 22 Apr 91 16:09:53 GMT
From: swrinde!elroy.jpl.nasa.gov!sdd.hp.com!hp-pcd!hplsla!daved@ucsd.edu
Subject: Address for JerryCo?

To: info-hams@ucsd.edu

Does anyone have an address (or phone number) for a surplus outfit called "JerryCo"? I had a catalog but lost it. I've looked through various Ham radio and electronics magazines, but have not been able to find it.

I am told they're in the midwest somewhere, but I'm not sure exactly where.

Thanks. Please E-mail if possible.

Dave

Date: 22 Apr 91 16:01:42 GMT
From: tut.cis.ohio-state.edu!n8emr!gws@ucbvax.berkeley.edu
Subject: AMSAT NEWS SERVICE BULLETIN 110.01
To: info-hams@ucsd.edu

=====
| Relayed from AMSAT BBS NETWORK |
| N8EMR's Ham BBS, 614-895-2553 |
=====

SB ALL @ AMSAT \$ANS-110.01
AO-21 TEMPORARILY DEAF

HR AMSAT NEWS SERVICE BULLETIN 110.01 FROM AMSAT HQ
SILVER SPRING, MD APRIL 20, 1991
TO ALL RADIO AMATEURS BT

Faulty Ground Command Makes AO-21 Command Receiver Temporarily Deaf

At the present time AO-21 remains deaf to commands. This condition is due to a faulty ground command which caused several attenuators to be switched in-line inside the command receiver. It has been determined that about 12 dB of attenuation was accidentally switched in. This situation has all the earmarks of the malady which affected DOVE last spring but with one notable exception. In the case of DOVE, it was a stuck transmitter which was caused the command receiver to become desensed and would not allow ground stations to command the stubborn transmitter off. Through the efforts of W5UN and his super EME station, enough EIRP was brought to bear on DOVE to silence its transmitter so ground controllers could start reloading software. Because of the similarity of the problems, it was only logical that the first step controllers decided to do take for AO-21 was to enlist

the aid of EME stations.

The initial efforts to correct AO-21's problem using EME stations in Europe capable of 10 KW of EIRP have proven so far to be unsuccessful. However, both the AMSAT-DL and AMSAT-U-ORBITA groups feel that they will soon be able to get control of AO-21 using a new commanding scheme they are currently working up. The new scheme will ultimately command the attenuators out of the receiver circuit. After trying the "sledge-hammer" approach, they have now decided the best way to work the problem now is to use a "ball-ping" hammer instead. Although the latter method may take a little longer, the probability of success appears to be much better.

UA3CR would like to thank radio amateurs around the world for providing him with time critical telemetry from the AO-21's CW beacon during the early days of this problem. Please stay tuned to AMSAT News Service (ANS) bulletins for further information concerning the status of AO-21.

[ANS thanks G3IOR and W2RS for relaying the information in this bulletin.]

/EX

SB ALL @ AMSAT \$ANS-110.02
WO-18 TAKES BEST PICTURE EVER

HR AMSAT NEWS SERVICE BULLETIN 110.02 FROM AMSAT HQ
SILVER SPRING, MD APRIL 20, 1991
TO ALL RADIO AMATEURS BT

To All: "Land Ho From WO-18"

Picture 5 currently transmitting from WO-18 is easily the best quality image of the earth achieved from Webersat to date. It was shot just west of Sumatra. The brightness level is about 180 with lots of contrast. There are both clouds and land features visible. Colorization works nicely and is necessary for best results. The cloud striations in this image appear very much like those visible in outdoor, pre-launch photos taken at WSU with the camera later launched in WO-18.

The picture will be left transmitting for several more days. Enjoy.

73's,
Chris, WA3PSD

/EX

SB ALL @ AMSAT \$ANS-110.03
AMSAT EXHIBITS AT DAYTON

HR AMSAT NEWS SERVICE BULLETIN 110.03 FROM AMSAT HQ

SILVER SPRING, MD APRIL 20, 1991
TO ALL RADIO AMATEURS BT

AMSAT to have Significant Display at Nation's Largest Hamfest

AMSAT, along with thousands of other Hams, will be making its annual pilgrimage to the Dayton Hamvention, which will be held April 26-28. The AMSAT display will consist of a triple wide booth and will be in the same space as last year: booth numbers 446, 447 and 448.

FORUMS

Again this year, two AMSAT Forums will be conducted. The first will be on Friday afternoon from 1:30 to 3:00 P.M. The second will be Saturday from 3:00 to 5:00 P.M. They will both be moderated by Jeff Wallach, N5ITU. The agenda of the two forums, as of press time, is as follows:

Friday's Forum:

Doug Loughmiller, K05I, "AMSAT, Dedicated to Keeping Amateur Radio in Space."
Jim White, WD0E "Microsat Hardware Performance Report"
Mike Crisler, N4IFD "Microsat for Beginners",

Saturday's Forum:

Bill Tynan, W3X0, "SAREX Update"
John Champa, K8OCL, "SEDSAT, digital video, Solar Sail, LPO, etc.",
Kermit Reister, "Introduction to Webersat.",

The talks will range in time from 30 to 60 minutes

The booth will have demonstrations of various tracking and telemetry software, along with Models of Phase III and Microsat satellites. The booth is also a Who's Who of AMSAT, so you can visit with many of those people who's teamwork has produced the satellites. It's a time to come up and ask that question which has been puzzling you for the last year. No question is too stupid - or too tough.

Much has happened over the past year in the Amateur Radio Satellite program. If you go to Dayton, make a point of stopping by to see how AMSAT is dedicated to KEEPING AMATEUR RADIO IN SPACE.

/EX

SB ALL @ AMSAT \$ANS-110.04
ZRO TESTS RESUME

HR AMSAT NEWS SERVICE BULLETIN 110.04 FROM AMSAT HQ
SILVER SPRING, MD APRIL 20, 1991

TO ALL RADIO AMATEURS BT

Popular Station Receiving Test to Resume in May

The ZRO Memorial Technical Achievement Award Program, or just "ZRO Test" has a new schedule for May and early June, 1990 via AMSAT-OSCAR-13. This activity is a test of operating skill and equipment performance.

During a typical ZRO run, a control station will send numeric code groups using CW at 10 words-per-minute. At the beginning of the run, uplink power from the control station is set to match the general beacon downlink strength. This is level "zero". The control operator will send and repeat a random five-digit number, then lower the uplink power by 3 dB (half power) and repeat the procedure with a new random number. This will continue to a level 27 dB below the beacon (level "nine").

Participating listeners monitor the downlink signals until they can no longer copy the numbers. Those who can hear the beacon will qualify for the basic award by copying the code group heard at level "zero". The challenge is to improve home-station performance to a point where the lower-level downlink signals can be copied (levels 6 through 9).

The following schedule of Mode "B" and "JL" ZRO tests were chosen for convenient operating times and favorable squint angles. The "B" tests can be heard on 145.840 MHz and the "JL" test on 435.945 MHz. Cliff Buttschardt, W6HDO, has changed radio systems and can no longer provide ZRO Test uplink signals for Mode "JL", so Ed Manuel, N5EM, will be taking on the "JL" tests while Andy MacAllister, WA5ZIB, will continue with "B" runs. Cliff's efforts with the ZRO program in 1990 were greatly appreciated. Work has been underway during April to improve transmitter signal calibration at the two stations now providing uplinks.

ZRO Test Times and Dates: (in UTC)

Saturday May 4, 1991 at 2100 UTC "B"
Sunday May 19, 1991 at 0300 UTC "JL"
Saturday May 25, 1991 at 1845 UTC "JL"
Saturday May 25, 1991 at 2045 UTC "B"
Saturday June 1, 1991 at 2230 UTC "JL"
Sunday June 2, 1991 at 0030 UTC "B"

Note that the dates and days are shown in "UTC", thus the tests on May 19th and June 2nd occur on Saturday nights for those in North America. Any changes will be announced as soon as possible via the AMSAT HF and AO-13 Operations Nets. Recently updated ZRO brochures are available from WA5ZIB, Andy MacAllister, AMSAT V.P. User Operations, 14714 Knightsway Drive, Houston, TX 77083 for an S.A.S.E. with two units of postage. The brochure characterizes

test procedures, means for obtaining certificates and gives some historical background about the program.

All listener reports with date of test and numbers copied should be sent to WA5ZIB at the address above. A report will be returned verifying the level of accurate reception. Good luck!

/EX

SB ALL @ AMSAT \$ANS-110.05
OPERATIONS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 110.05 FROM AMSAT HQ
SILVER SPRING, MD APRIL 20, 1991
TO ALL RADIO AMATEURS BT

AMSAT-NA Operations Net Schedule

AMSAT Operations Nets are planned for the following times. Mode B nets are conducted on an AO-13 downlink frequency of 145.950. Mode J/L nets are conducted on an AO-13 downlink frequency of 435.970.

Date	UTC	Mode	Phs	NCS	Alternates	U.S. day
28 Apr 91	0300	J/L	102	N5BF	WD0E WB6LLO	Saturday
04 May 91	2100	B	141	WB9ANQ	KA5SMA WJ9F	Saturday
12 May 91	0100	B	149	WA5ZIB	KA5SMA WB6LLO	Saturday
22 May 91	0115	B	146	WD0E	WB6LLO N5BF	Tuesday

The Operations Net features guest speakers approximately every other week to provide up-to-the-minute information on topics of interest to various sorts of satellite users. Watch ANS for information on guest speakers and topics.

/EX

SB ALL @ AMSAT \$ANS-110.06
NEW AO-13 TRANSPONDER SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 110.06 FROM AMSAT HQ
SILVER SPRING, MD APRIL 20 1991
TO ALL RADIO AMATEURS BT

AO-13 Spring Schedule, AO-10 Not Presently Available

The current schedule is:

Mode-B : MA 000 to MA 256 ! This schedule will continue until
Omnis : MA 240 to MA 030 ! further notice.

Off : MA 220 to MA 035 <-- when magnetorquing in progrees.

The target Spacecraft attitude (once magnetorquing is complete) is:

BLON = 180 BLAT = 0

Currently, OSCAR-10 is obviously not receiving sufficient solar panel illumination to support even the beacon much less the transponder. PLEASE DO NOT attempt to use OSCAR-10 until further notice. This period of dormancy is expected to last for several months. As soon as OSCAR-10 can support Mode-B transponder operations it will once again be released for general use. Early reports of OSCAR-10's beacon returning to full strength can be sent to VK5AGR @ PACSAT-1, @ UOSAT-3, @ 8J1JBS, or @ VK5WI. 73, Graham VK5AGR

/EX

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Gary W. Sanders (gws@n8emr or ...!osu-cis!n8emr!gws), 72277,1325
N8EMR @ W8CQK (ip addr) 44.70.0.1 [Ohio AMPR address coordinator]
HAM BBS 614-895-2553
Voice: 614-895-2552 (eves/weekends)

Date: 22 Apr 91 16:13:08 GMT
From: tut.cis.ohio-state.edu!n8emr!gws@ucbvax.berkeley.edu
Subject: AMSAT ORBITAL ELEMENTS
To: info-hams@ucsd.edu

=====
| Relayed from AMSAT BBS NETWORK |
| N8EMR's Ham BBS, 614-895-2553 |
=====

SB KEPS @ AMSAT \$ORBS-110.0
Orbital Elements 110.OSCAR

HR AMSAT ORBITAL ELEMENTS FOR OSCAR SATELLITES
FROM N3FKV HEWITT, TX April 20, 1991
TO ALL RADIO AMATEURS BT

Satellite: AO-10
Catalog number: 14129
Epoch time: 91097.32732770
Element set: 646

Inclination: 25.8493 deg
RA of node: 151.9623 deg
Eccentricity: 0.6008503
Arg of perigee: 231.4593 deg
Mean anomaly: 58.2833 deg
Mean motion: 2.05882614 rev/day
Decay rate: 2.4e-07 rev/day^2
Epoch rev: 3079

Satellite: UO-11

Catalog number: 14781
Epoch time: 91108.60790668
Element set: 996
Inclination: 97.9080 deg
RA of node: 155.6266 deg
Eccentricity: 0.0012633
Arg of perigee: 7.3169 deg
Mean anomaly: 352.8348 deg
Mean motion: 14.66747077 rev/day
Decay rate: 4.729e-05 rev/day^2
Epoch rev: 38071

Satellite: RS-10/11

Catalog number: 18129
Epoch time: 91107.90229248
Element set: 586
Inclination: 82.9219 deg
RA of node: 103.4085 deg
Eccentricity: 0.0011775
Arg of perigee: 1.9123 deg
Mean anomaly: 358.2087 deg
Mean motion: 13.72176641 rev/day
Decay rate: 5.21e-06 rev/day^2
Epoch rev: 19132

Satellite: A0-13

Catalog number: 19216
Epoch time: 91078.38609337
Element set: 242
Inclination: 56.8112 deg
RA of node: 104.6916 deg
Eccentricity: 0.7140389
Arg of perigee: 249.8316 deg
Mean anomaly: 25.0884 deg
Mean motion: 2.09695125 rev/day
Decay rate: 2.15e-06 rev/day^2
Epoch rev: 2114

Satellite: FO-20
Catalog number: 20480
Epoch time: 91105.46288860
Element set: 192
Inclination: 99.0229 deg
RA of node: 99.5400 deg
Eccentricity: 0.0541706
Arg of perigee: 83.6665 deg
Mean anomaly: 282.5775 deg
Mean motion: 12.83187494 rev/day
Decay rate: 2.47e-06 rev/day^2
Epoch rev: 5551

Satellite: AO-21
Catalog number: 21087
Epoch time: 91107.96751220
Element set: 31
Inclination: 82.9386 deg
RA of node: 278.2797 deg
Eccentricity: 0.0037042
Arg of perigee: 67.3972 deg
Mean anomaly: 293.1098 deg
Mean motion: 13.74370702 rev/day
Decay rate: 3.03e-06 rev/day^2
Epoch rev: 1075

Satellite: RS-12/13
Catalog number: 21089
Epoch time: 91106.59276242
Element set: 34
Inclination: 82.9240 deg
RA of node: 149.7673 deg
Eccentricity: 0.0031147
Arg of perigee: 90.4620 deg
Mean anomaly: 270.0106 deg
Mean motion: 13.73886869 rev/day
Decay rate: 2.27e-06 rev/day^2
Epoch rev: 968

/EX

SB KEPS @ AMSAT \$ORBS-110.D
Orbital Elements 110.MICROS

HR AMSAT ORBITAL ELEMENTS FOR THE MICROSATS
FROM N3FKV HEWITT, TX April 20, 1991
TO ALL RADIO AMATEURS BT

Satellite: UO-14

Catalog number: 20437
Epoch time: 91102.19987967
Element set: 327
Inclination: 98.6689 deg
RA of node: 182.0325 deg
Eccentricity: 0.0011166
Arg of perigee: 5.6581 deg
Mean anomaly: 354.4337 deg
Mean motion: 14.29044588 rev/day
Decay rate: 1.197e-05 rev/day²
Epoch rev: 6356

Satellite: A0-16

Catalog number: 20439
Epoch time: 91102.23899255
Element set: 219
Inclination: 98.6743 deg
RA of node: 182.3695 deg
Eccentricity: 0.0011900
Arg of perigee: 8.1550 deg
Mean anomaly: 351.9729 deg
Mean motion: 14.29135378 rev/day
Decay rate: 1.191e-05 rev/day²
Epoch rev: 6357

Satellite: D0-17

Catalog number: 20440
Epoch time: 91102.22307942
Element set: 219
Inclination: 98.6742 deg
RA of node: 182.3927 deg
Eccentricity: 0.0011905
Arg of perigee: 9.4054 deg
Mean anomaly: 350.7186 deg
Mean motion: 14.29212936 rev/day
Decay rate: 1.295e-05 rev/day²
Epoch rev: 6357

Satellite: W0-18

Catalog number: 20441
Epoch time: 91098.62500630
Element set: 217
Inclination: 98.6723 deg
RA of node: 178.8625 deg
Eccentricity: 0.0012888
Arg of perigee: 16.0879 deg
Mean anomaly: 344.0710 deg
Mean motion: 14.29256413 rev/day

Decay rate: 1.030e-05 rev/day^2
Epoch rev: 6306

Satellite: L0-19
Catalog number: 20442
Epoch time: 91098.67315919
Element set: 219
Inclination: 98.6722 deg
RA of node: 178.9615 deg
Eccentricity: 0.0012935
Arg of perigee: 16.0300 deg
Mean anomaly: 344.1292 deg
Mean motion: 14.29331789 rev/day
Decay rate: 9.48e-06 rev/day^2
Epoch rev: 6307

/EX

SB KEPS @ AMSAT \$ORBS-110.W
Orbital Elements 110.WEATHER

HR AMSAT ORBITAL ELEMENTS FOR WEATHER SATELLITES
FROM N3FKV HEWITT, TX April 20, 1991
TO ALL RADIO AMATEURS BT

Satellite: NOAA-9
Catalog number: 15427
Epoch time: 91102.28360107
Element set: 725
Inclination: 99.1729 deg
RA of node: 114.2159 deg
Eccentricity: 0.0014121
Arg of perigee: 248.7678 deg
Mean anomaly: 111.1989 deg
Mean motion: 14.12944064 rev/day
Decay rate: 9.55e-06 rev/day^2
Epoch rev: 32621

Satellite: NOAA-10
Catalog number: 16969
Epoch time: 91097.93691543
Element set: 567
Inclination: 98.5720 deg
RA of node: 123.9135 deg
Eccentricity: 0.0014050
Arg of perigee: 129.2742 deg
Mean anomaly: 230.9686 deg
Mean motion: 14.24039231 rev/day
Decay rate: 1.129e-05 rev/day^2

Epoch rev: 23655

Satellite: MET-2/17

Catalog number: 18820

Epoch time: 91106.46001087

Element set: 471

Inclination: 82.5405 deg

RA of node: 109.3736 deg

Eccentricity: 0.0015812

Arg of perigee: 187.6611 deg

Mean anomaly: 172.4317 deg

Mean motion: 13.84469815 rev/day

Decay rate: 1.89e-06 rev/day²

Epoch rev: 16214

Satellite: MET-3/2

Catalog number: 19336

Epoch time: 91101.92664892

Element set: 719

Inclination: 82.5444 deg

RA of node: 66.0743 deg

Eccentricity: 0.0016059

Arg of perigee: 288.9946 deg

Mean anomaly: 70.9502 deg

Mean motion: 13.16919571 rev/day

Decay rate: 1.21e-06 rev/day²

Epoch rev: 13027

Satellite: NOAA-11

Catalog number: 19531

Epoch time: 91099.26633402

Element set: 477

Inclination: 99.0242 deg

RA of node: 53.5690 deg

Eccentricity: 0.0012222

Arg of perigee: 164.8291 deg

Mean anomaly: 195.3252 deg

Mean motion: 14.12059942 rev/day

Decay rate: 1.228e-05 rev/day²

Epoch rev: 13074

Satellite: MET-2/18

Catalog number: 19851

Epoch time: 91106.72821041

Element set: 424

Inclination: 82.5248 deg

RA of node: 346.6084 deg

Eccentricity: 0.0012671

Arg of perigee: 233.9489 deg
Mean anomaly: 126.0499 deg
Mean motion: 13.84119466 rev/day
Decay rate: 4.64e-06 rev/day²
Epoch rev: 10755

Satellite: MET-3/3
Catalog number: 20305
Epoch time: 91100.13156366
Element set: 332
Inclination: 82.5542 deg
RA of node: 8.5610 deg
Eccentricity: 0.0016096
Arg of perigee: 310.3595 deg
Mean anomaly: 49.6215 deg
Mean motion: 13.15946754 rev/day
Decay rate: 4.3e-07 rev/day²
Epoch rev: 7000

Satellite: MET-2/19
Catalog number: 20670
Epoch time: 91106.89005958
Element set: 170
Inclination: 82.5459 deg
RA of node: 47.5791 deg
Eccentricity: 0.0016078
Arg of perigee: 149.2995 deg
Mean anomaly: 210.9111 deg
Mean motion: 13.83946658 rev/day
Decay rate: 4.92e-06 rev/day²
Epoch rev: 4052

Satellite: FY-1/2
Catalog number: 20788
Epoch time: 91099.95294536
Element set: 130
Inclination: 98.9462 deg
RA of node: 134.8714 deg
Eccentricity: 0.0015188
Arg of perigee: 10.5280 deg
Mean anomaly: 349.6202 deg
Mean motion: 14.01109554 rev/day
Decay rate: 5.18e-06 rev/day²
Epoch rev: 3065

Satellite: MET-2/20
Catalog number: 20826
Epoch time: 91106.66403113

Element set: 126
Inclination: 82.5310 deg
RA of node: 346.8284 deg
Eccentricity: 0.0014918
Arg of perigee: 54.5918 deg
Mean anomaly: 305.6639 deg
Mean motion: 13.83331286 rev/day
Decay rate: 5.02e-06 rev/day^2
Epoch rev: 2770

/EX

SB KEPS @ AMSAT \$ORBS-110.M
Orbital Elements 110.MISC

HR AMSAT ORBITAL ELEMENTS FOR MANNED AND MISCELLANEOUS SATELLITES
FROM N3FKV HEWITT, TX April 20, 1991
TO ALL RADIO AMATEURS BT

Satellite: MIR
Catalog number: 16609
Epoch time: 91107.85243023
Element set: 380
Inclination: 51.6067 deg
RA of node: 233.4307 deg
Eccentricity: 0.0010040
Arg of perigee: 120.4867 deg
Mean anomaly: 239.7062 deg
Mean motion: 15.64417562 rev/day
Decay rate: 8.0629e-04 rev/day^2
Epoch rev: 29569

Satellite: HUBBLE
Catalog number: 20580
Epoch time: 91106.37161498
Element set: 406
Inclination: 28.4685 deg
RA of node: 117.4852 deg
Eccentricity: 0.0004890
Arg of perigee: 40.8722 deg
Mean anomaly: 327.6839 deg
Mean motion: 14.87300753 rev/day
Decay rate: 7.462e-05 rev/day^2
Epoch rev: 5310

/EX

SB KEPS @ AMSAT \$ORBS-110.N
2-Line Orbital Elements 110.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM N3FKV HEWITT, TX April 20, 1991

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10

1 14129U 83 58 B 91097.32732770 .00000024 00000-0 99999-4 0 6462
2 14129 25.8493 151.9623 6008503 231.4593 58.2833 2.05882614 30790

UO-11

1 14781U 84 21 B 91108.60790668 .00004729 00000-0 85566-3 0 9969
2 14781 97.9080 155.6266 0012633 7.3169 352.8348 14.66747077380719

NOAA-9

1 15427U 84123 A 91102.28360107 .00000955 00000-0 53396-3 0 7252
2 15427 99.1729 114.2159 0014121 248.7678 111.1989 14.12944064326211

MIR

1 16609U 91107.85243023 .00080629 00000-0 81916-3 0 3804
2 16609 51.6067 233.4307 0010040 120.4867 239.7062 15.64417562295695

NOAA-10

1 16969U 86 73 A 91097.93691543 .00001129 00000-0 50757-3 0 5672
2 16969 98.5720 123.9135 0014050 129.2742 230.9686 14.24039231236559

RS-10/11

1 18129U 91107.90229248 .00000521 00000-0 56128-3 0 5860
2 18129 82.9219 103.4085 0011775 1.9123 358.2087 13.72176641191329

MET-2/17

1 18820U 88 5 A 91106.46001087 .00000189 00000-0 15809-3 0 4712
2 18820 82.5405 109.3736 0015812 187.6611 172.4317 13.84469815162149

AO-13

1 19216U 88 51 B 91078.38609337 .00000215 00000-0 44351-3 0 2424
2 19216 56.8112 104.6916 7140389 249.8316 25.0884 2.09695125 21140

MET-3/2

1 19336U 88 64 A 91101.92664892 .00000121 00000-0 29681-3 0 7199
2 19336 82.5444 66.0743 0016059 288.9946 70.9502 13.16919571130273

NOAA-11

1 19531U 88 89 A 91099.26633402 .00001228 00000-0 69016-3 0 4775
2 19531 99.0242 53.5690 0012222 164.8291 195.3252 14.12059942130744

MET-2/18

1 19851U 89 18 A 91106.72821041 .00000464 00000-0 40683-3 0 4243
2 19851 82.5248 346.6084 0012671 233.9489 126.0499 13.84119466107553

MET-3/3

1 20305U 89 86 A 91100.13156366 .00000043 00000-0 99999-4 0 3320
2 20305 82.5542 8.5610 0016096 310.3595 49.6215 13.15946754 70005

UO-14

1 20437U 90 5 B 91102.19987967 .00001197 00000-0 48882-3 0 3275
 2 20437 98.6689 182.0325 0011166 5.6581 354.4337 14.29044588 63569
 AO-16
 1 20439U 90 5 D 91102.23899255 .00001191 00000-0 48525-3 0 2192
 2 20439 98.6743 182.3695 0011900 8.1550 351.9729 14.29135378 63571
 DO-17
 1 20440U 90 5 E 91102.22307942 .00001295 00000-0 52544-3 0 2191
 2 20440 98.6742 182.3927 0011905 9.4054 350.7186 14.29212936 63578
 WO-18
 1 20441U 90 5 F 91098.62500630 .00001030 00000-0 42067-3 0 2173
 2 20441 98.6723 178.8625 0012888 16.0879 344.0710 14.29256413 63064
 LO-19
 1 20442U 90 5 G 91098.67315919 .00000948 00000-0 38790-3 0 2190
 2 20442 98.6722 178.9615 0012935 16.0300 344.1292 14.29331789 63073
 FO-20
 1 20480U 90 13 B 91105.46288860 .00000247 00000-0 60371-3 0 1923
 2 20480 99.0229 99.5400 00541706 83.6665 282.5775 12.83187494 55510
 HUBBLE
 1 20580U 91106.37161498 .000007462 00000-0 79308-3 0 4063
 2 20580 28.4685 117.4852 0004890 40.8722 327.6839 14.87300753 53107
 MET-2/19
 1 20670U 90 57 A 91106.89005958 .00000492 00000-0 43291-3 0 1705
 2 20670 82.5459 47.5791 0016078 149.2995 210.9111 13.83946658 40523
 FY-1/2
 1 20788U 90 81 A 91099.95294536 .00000518 00000-0 36819-3 0 1305
 2 20788 98.9462 134.8714 0015188 10.5280 349.6202 14.01109554 30652
 MET-2/20
 1 20826U 90 86 A 91106.66403113 .00000502 00000-0 44652-3 0 1265
 2 20826 82.5310 346.8284 0014918 54.5918 305.6639 13.83331286 27705
 AO-21
 1 21087U 91107.96751220 .00000303 00000-0 30826-3 0 313
 2 21087 82.9386 278.2797 0037042 67.3972 293.1098 13.74370702 10757
 RS-12/13
 1 21089U 91 7 A 91106.59276242 .00000227 00000-0 22916-3 0 345
 2 21089 82.9240 149.7673 0031147 90.4620 270.0106 13.73886869 9689
 /EX

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Gary W. Sanders (gws@n8emr or ...!osu-cis!n8emr!gws), 72277,1325
 N8EMR @ W8CQK (ip addr) 44.70.0.1 [Ohio AMPR address coordinator]
 HAM BBS 614-895-2553
 Voice: 614-895-2552 (eves/weekends)

Date: 22 Apr 91 19:21:21 GMT
 From: pa.dec.com!shlump.nac.dec.com!yacht.enet.dec.com!gettys@decwrl.dec.com
 Subject: Deerfield hamfest dates?
 To: info-hams@ucsd.edu

Deerfield New Hampshire Flea Market is being held on May 4 1991 at the Deerfield Fairgrounds on Route 43 in Deerfield New Hampshire. It will open sometime in the afternoon of 3 May (friday) for camping (no fires!) and will continue through late afternoon on saturday. Access is from route 101 east of interstate route 95.

/s/ Bob Gettys N1BRM

p.s. Bring money and buy something!!!! Keep the economy going!

Date: 22 Apr 91 08:01:18 GMT
From: swrinde!zaphod.mps.ohio-state.edu!think.com!mintaka!bloom-beacon!eru!hagbard!sunic!mcsun!hp4nl!phigate!philica!geertj@ucsd.edu
Subject: How to make electronic antenna switches at 70cm?
To: info-hams@ucsd.edu

I'm building a transverter for 10m->70cm, to be used for the DSY-modems. Transmit and receive seem OK now - haven't checked with an analyser yet - but I have some problems getting the TX/RX antenna switch right.

Because it is going to be used for packet, I'm reluctant to use a coax relay. So, I am looking into diode switches. The amateur literature I have hardly mentions this area: transmitters are described, receivers are described, but the integration of these boxes usually isn't covered. So, how to I keep my 25 Watts of RF out of the preamplifier stage?

I have looked into commercial designs, but most of them uses striplines on PCB, which are hard to 'borrow'. Has anyone else struggled with this problem? Somebody made a 70cm switch for 25W with kitchentable technology? Tell me how you did it!

Thanks in advance!

73, Geert Jan PE1HZG

--8<--nip-nip-----
"We trained hard - but it seemed that every time we were beginning to form up into teams, we would be reorganized. It was to learn later in life that we tend to meet any new situation by reorganizing, and a wonderful method it can be for creating the illusion of progress while producing confusion, inefficiency, and demoralisation." - Petronius, 100 BC

Geert Jan de Groot, Philips ICA, Weissshausstrasse 1, 5100 Aachen, Germany
Email: geertj@ica.philips.nl or ..!hp4nl!philica!geertj
Phone: +49 241 6003 714 FAX: +49 241 6003 709

Date: 22 Apr 91 17:04:41 GMT
From: usc!zaphod.mps.ohio-state.edu!caen!ox.com!emory!ducvax.auburn.edu!
eng.auburn.edu!bh@ucsd.edu
Subject: Repeater Distance
To: info-hams@ucsd.edu

What is the average distance that you can receive repeater signals from? More specifically, I have an HT and I want to listen to the signals from a repeater about 100 miles away. What are my chances going to be or should I just give up?

Brian Hartsfield
bh@eng.auburn.edu

Date: 22 Apr 91 15:17:10 GMT
From: borg!pswecker@mcnc.org
To: info-hams@ucsd.edu

References <3192@ksr.com>, <3287@borg.cs.unc.edu>, <4458@ryn.mro4.dec.com>
Subject : Re: No-Code Testing - Who is to adm.

In article <4458@ryn.mro4.dec.com> taber@ultnix.enet.dec.com (Patrick St. Joseph Teahan Taber) writes:

>
>It's true that it says that in the rules, but neither of the National
>VECs accept VEs unless they are Extra class. I don't know about the
>smaller VECs, but I've heard that nobody accredits Advanced or General
>VEs. There's no shortage of examiners and the headaches of mixed-class
>VEs aren't worth it.

I'm not sure what you mean by "National VECs", but I know that both W5YI and ARRL accept Advanced VEs. Our group uses W5YI, and the form I signed clearly let you check either Advanced or Extra. As for ARRL, if you look in the April QST, you'll see they have an ad for their VE program, and it also has a spot for checking either Advanced or Extra.

Maybe this is a new thing???

73s, Peter

Peter St.Wecker, N4YRJ Internet:pswecker@med.unc.edu
(919) 966-1096 UUCP:pswecker@uncmed.uucp
Dept. of Physiology, Univ. of North Carolina, Chapel Hill NC
If we knew what we were doing, it wouldn't be research

Date: 22 Apr 91 21:34:22 GMT
From: swrinde!cs.utexas.edu!csc.ti.com!ti-csl!tilde.csc.ti.com!axis!
sqa.dsg.ti.com!edh@ucsd.edu
To: info-hams@ucsd.edu

References <3192@ksr.com>, <29346@rouge.usl.edu>,
<1991Apr22.142247.13575@axis.dsg.ti.com>
Subject : Re: No-Code Testing - Who is to adm.

In article <1991Apr22.142247.13575@axis.dsg.ti.com> I added to the list
of what an Advanced Class VE can test:

>
>Add: and general and advanced (but not extra) class exams - Extra Class
> VE's (team of 3 of course :-) test prospective Extras (or down)
>

Peter Hayward graciously corrected me by e-mail (Thank you Peter) and
my Advanced Class wife corrected me (and reminded me that anytime I
wanted to know something all I have to do is ask her!).

Advanced VEs test Technician and Novice ham prospects. As originally
posted. Usually I check the facts before posting -- this time I was
so sure I was right, it was inevitable I'd be wrong! Sorry to any and
all I may have confused with my error.

--
Ed Humphries Texas Instruments, Inc. 512-250-6894
N5RCK Internet ed.humphries@hub.dsg.ti.com
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End of Info-Hams Digest
